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09/935,403	08/22/2001	William K. Zuravleff	0011-046	9847

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Henneman & Saunders  
121 E. 11th Street  
Tracy, CA 95376

EXAMINER

DUONG, TAI V

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 09/23/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/935,403

Applicant(s)

ZURAVLEFF, WILLIAM K.

Examiner

Tai Duong

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 8-12 and 14-17 is/are rejected.
- 7) ☐ Claim(s) 5-7, 13 and 18-20 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the recited feature "the vias are uniformly distributed on both an X axis and a Y axis of the LCD" of claim 5 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 8, 16 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 8, it is unclear which element, the vias or the center, being on at least one of an X axis and Y axis of the imaging surfaces. In claim 16 and 17, it is unclear whether the second axis is the at least one axis of claim 15 or a different axis. If the second axis is a different axis, claim 17 is indefinite because the vias cannot meet the two recited arrangements at the same time.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

Art Unit: 2871

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 8, 11, 12, 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Sato et al.

Note Fig. 2 which identically disclose the claimed LCD array having a metal circuitry layer 141 separated from a plurality of imaging surfaces 181 by an insulating layer, two vias (151, 171) between the metal layer and each of the imaging surfaces wherein the vias 151 is an electrical connection (via the elements 164 and 171) between the metal layer and the imaging surfaces. The vias 151 and 171 can be considered as grouped *near* a center of the imaging surfaces on at least one of an X axis and Y axis of the imaging surfaces. It is noted that the X and Y axes are arbitrarily located on the imaging surfaces, not necessarily located at the center of the imaging surfaces. As to the limitation "the vias are evenly distributed on the imaging surfaces" of claim 11, this limitation is broadly interpreted as "not positioned at the same edge of the imaging surfaces". As apparent from Fig. 2, if one axis (X or Y) is selected at the center of element 164, the vias 151 and 171 are considered as symmetrically arrayed with respect to that axis or center.

Claims 9 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Ichimura .

Note Figs. 5A-B which identically disclose the claimed method comprising the steps of placing the vias 30 such that the vias are evenly spaced from the center of the mirrors 13a with respect to both an X (116) and axis and a Y (111) axis.

Art Unit: 2871

Claims 5-7, 13 and 18-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 16 and 17 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claims 5-7, 13 and 18-20 would be allowable because none of the prior art discloses or suggests the vias being uniformly distributed on both an X axis and a Y axis of the LCD array, equidistant from an X or Y axis of each of the imaging surfaces, or the vias being arrayed in particular arrangements as recited in claims 16-20.

Any inquiry concerning this communication should be directed to Tai Duong at telephone number 703 308-4873.

  
TVD

TOANTON  
PRIMARY EXAMINER